

## **CLAIMS**

What is claimed is:

1. An inserted electrical connector 1 for interlinking two superimposed electronic circuits 2, 3, comprising electrically conducting plugs 4 each of which is intended to ensure an electrical connection between a first electrical contact area 5 borne by the first electronic circuit 2 and a second electrical contact area 6 borne by the second electrical circuit 3, wherein it comprises a base 10 made of electrically insulating material with plugs 4, a guide 11 made of electrically insulating material, and a guiding means 12 attached thereto and located between the guide and the base, wherein at least some of the plugs 4 project from the base 10 so that the free end of each one can fit into and slide in a housing 13 passing through the guide 11, and wherein the guiding means 12 comprise a projecting first part 14 attached to the base 10 and an additional second part 15 mounted on the first part 14 and attached to the guide 11.

2. The connector of claim 1, wherein the first part 14 of the guiding means 12 projects from the base 10 to a height greater than that of the projecting part of the plugs 4 above the base 10.

3. The connector of claim 1, wherein the plugs 4 are inserted into the associated housings 13 passing through the tight sliding guide 12, with an even tighter sliding assembly located between the two parts 14, 15 of the guiding means 12.

4. The connector of claim 1, wherein the plugs 4 pass through the first holes 9 of one of the electronic circuits 3, known as the second circuit, with more play than that existing between the plugs 4 and the associated housings 13 of the guide 11.

5. The connector of claim 4, wherein the first part 14 of the guiding means 12 passes through the two holes 22 of the second circuit 3 with less play than that between the plugs 4 and the first holes 9.

6. The connector of claim 1, wherein the plugs 4 are mounted in the housings 18 of the base 10 with a tighter fit than that existing between the plugs 4 and the associated housings 13 of the guide 12.

7. The connector of claim 1, wherein the first part of the guiding means 12 comprises posts 14 each of which fits tightly so as to slide in an additional hole 15 made in the guide 11 and comprising the second part of the guiding means 12.

8. The connector of claim 1, wherein the base 10 is equipped with means 16 in the shape of projections 16 for attaching said base to another electronic circuit 2, known as the first circuit.

9. The connector of claim 8, wherein the projections comprise pins 16 with flanged tabs 17 on their free end owing to at least one groove and wherein the pins 16 are intended to pass through an additional opening in the first circuit 2 in order to be attached by snapping onto the base 10 on the first circuit 2.

10. The connector of claim 1, wherein the plugs 4 comprise metal tabs of rectangular section with a head 7, comprising the free end of the tab 4 in a penetrating shape, and a foot 8 extending at 90° to the plane of the tab 4.

11. The connector of claim 10, wherein the foot 8 is intended to make electrical contact with the first electrical contact area 5 of the first circuit 2.

12. The connector of claim 1, wherein the first part 14 of the guiding means 12 forms one piece with the base 10.

WO 2004/097998

PCT/FR/2004/001020

13. The connector of claim 1, wherein said connector is intended to interlink with a first electronic circuit pertaining to a power stage and a second electronic circuit pertaining to a control stage.

14. The connector of claim 13, wherein both stages are mounted in an electronic command and control box of an automobile alternator-starter.

15. A method for mounting a connector in accordance with claim 1, wherein the guide 11 is intended to occupy a premounting position whereby the guide 11 covers the free ends of the plugs 4 and a mounting position whereby the free ends of the plugs 4 are uncovered.

16. The method of claim 13, wherein means 114 are contemplated for maintaining the guide 11 in its premounting position.